Headquarters Air Combat Command

Modernization



Col Verba Moore HQ ACC/SGR 10 Feb 04

This Briefing is: FOUO



Modernization

- · What it is and what it isn't
- Funding
- New Initiatives
- Exploratory initiatives



Modernizing EMEDS

- Upgrading vs. Expeditionary Modernization
 - Upgrading—replacing older models, equipment with latest generation, e.g., Lifepack 12 for Lifepack 6
 - Expeditionary modernization—developing a new item or modifying an existing item for military unique application
- Funding
 - Peacetime healthcare—DHP (Defense Health Program)
 - Expeditionary—LAF (Line of the Air Force)



Modernization

- New Initiatives
 - "Good Idea"
 - Industry inputs
 - After Action Reports
 - New threats to be countered



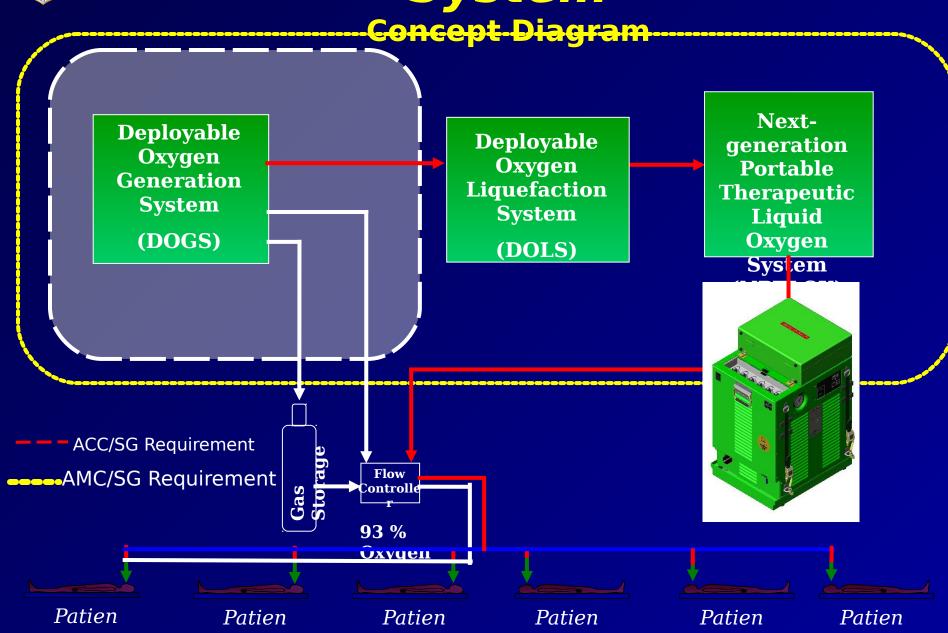
New Initiatives

- Funded or Pursuing Funding
 - Deployable Oxygen System (DOS)
 - Aeromedical Deployed Record and Reporting System (ADDRS)
 - Field Intravenous Solution Reconstitution (FIVR)
 - Haemostatic Agent for Lifesaving (HEAL)
 - Blood Oxygenation System (BO₂S)
- Exploratory Initiatives
 - Water Purification
 - Ventilator
 - Chemical Sterilizer
 - Probiotics



- Deployable Oxygen System (DOS)
 - Multipart initiative
 - Gaseous oxygen generation
 - Compressed gas storage
 - Oxygen liquification (AMC)
 - EMEDS PTLOX to be replaced by on-site generation and storage
 - Development funded with FY05 APOM and Congressional plus-ups

Deployable Oxygen System





- Aeromedical Deployed Record and Reporting System (ADRRS a.k.a. GEMS 4.0)
 - Theater Occupational Module (TOM) enhancements
 - Develop the Automatic Report Tool & Expert Surveillance Toolkit (ARTEST)
 - TRAC2ES and DoD Electronic Medical Record integration
 - FY03 Warfighter Rapid Acquisition Program (WRAP)
 - Opportunity to tweak issues with GEMS 3.0



- Field Intravenous Solution Reconstitution (FIVR)
 - Force Protection Battlelab Proof of Concept with Baxter Laboratories developing a portable device capable of producing IV and irrigation solutions from potable water
 - Merges hemodialysis technology with IV solution production technology
 - FY04 WRAP Funding for prototype development



- Haemostatic Agent for Lifesaving (HEAL)
 - Superficial Wounds
 - Haemostatic dressing tested and evaluated for use in UTCs
 - Clotting powder (Quick-clot@)
 - Deep wound management
 - Factor VIIa under exploration for deep wound management
 - FY03 WRAP funding



- Blood Oxygenation System (BO₂S)
 - Develop an oxygen carrying blood substitute for expeditionary use
 - Increased storage life and simplified logistics reduces blood inventory
 - Compatible with all blood types



Modernization

- Exploratory Initiatives
 - Water purification
 - Drinking water
 - Sterile water
 - Micro-ventilator
 - Does not require compressed gas
 - Targeting MFST, far forward UTCs
 - Portable sterilization
 - Replace steam sterilizer
 - Probiotics
 - Using "good" bacteria to counter "bad" bacteria



Questions?